

~~What is claimed is:~~

1. A reproducing apparatus for receiving contents data and index pictures corresponding thereto from a record medium or a transmission medium, the picture frame sizes of the index pictures being smaller than the picture frame size of the contents data, displaying the index pictures on displaying means, and selecting contents data with the displayed index pictures, the reproducing apparatus comprising:

10 first storing means for storing first index picture data that is received;

picture processing means for processing the first index picture data that is read from said first storing means; and

15 second storing means for storing second index picture data that is formed by said picture processing means and for outputting picture data to be displayed, wherein at least one index picture is arranged in one direction and displayed corresponding to the picture data to be displayed.

20 2. The reproducing apparatus as set forth in claim 1,

wherein said picture processing means converts the component format of the first index picture data.

25 3. The reproducing apparatus as set forth in claim 1,

wherein said picture processing means has a mono-chrome data generating source and adds mono-chrome data generated by the mono-chrome data generating source to the picture frame of the first index picture data in a frame shape.

5. The reproducing apparatus as set forth in claim 3,

10 wherein said picture processing means adds the mono-chrome data to the picture frame of the first index picture data so that pictures of different picture frame sizes are converted into pictures of the same picture frame size.

15. The reproducing apparatus as set forth in claim 1,

20 wherein said picture processing means enlarges or reduces the picture frame size of the first index picture data.

25. The reproducing apparatus as set forth in claim 5,

20 wherein said picture processing means enlarges or reduces the picture frame size of the first index picture data so that pictures of different picture frame sizes are converted into pictures of the same picture frame size.

25. The reproducing apparatus as set forth in claim 1,

wherein the first index picture data and

second index picture data are composed of first field and second field, and

wherein when the second index picture data is written to said second storing means, data of one of
5 the first field and the second field that is not being displayed is written.

8. The reproducing apparatus as set forth in claim 1,

wherein said first storing means is used for
10 a decoding process for obtaining the first index picture data.

9/ A reproducing method for receiving contents data and index pictures corresponding thereto from a record medium or a transmission medium, the picture frame sizes of the index pictures being smaller than the picture frame size of the contents data, displaying the index pictures on displaying means, and selecting contents data with the displayed index pictures, the reproducing method comprising the steps of:

20 storing first index picture data that is received to first storing means;

processing the first index picture data that is read from the first storing means with picture processing means; and

25 storing second index picture data that is formed by the picture processing means in second storing means and for outputting picture data to be

- displayed from the second storing means,
wherein at least one index picture is
arranged in one direction and displayed corresponding
to the picture data to be displayed.
- 5 10. The reproducing method as set forth in claim
9,
 wherein the picture processing means converts
the component format of the first index picture data.
- 10 11. The reproducing method as set forth in claim
9,
 wherein the picture processing means adds
mono-chrome data to the picture frame of the first
index picture data in a frame shape.
- 15 12. The reproducing method as set forth in claim
11,
 wherein the picture processing means adds the
mono-chrome data to the picture frame of the first
index picture data so that pictures of different
picture frame sizes are converted into pictures of the
same picture frame size.
- 20 13. The reproducing method as set forth in claim
9,
 wherein the picture processing means enlarges
or reduces the picture frame size of the first index
picture data.
- 25 14. The reproducing method as set forth in claim
13,

wherein the picture processing means enlarges
or reduces the picture frame size of the first index
picture data so that pictures of different picture
frame sizes are converted into pictures of the same
picture frame size.

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15. The reproducing method as set forth in claim
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wherein the first index picture data and
second index picture data are composed of first field
and second field, and

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wherein when the second index picture data is
written to the second storing means, data of one of the
first field and the second field that is not being
displayed is written.